DO NOT SCALE

DESIGNERS HAZARD IDENTIFICATION

IT IS ASSUMED THAT ALL WORKS WILL BE UNDERTAKEN BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT. IN ADDITION TO THE HAZARDS TYPICALLY ASSOCIATED WITH THE TYPES OF CONSTRUCTION DETAILED ON THIS DRAWING, ANY KNOWN ABNORMAL HAZARDS SPECIFIC TO THIS SCHEME HAVE BEEN IDENTIFIED.

ABNORMAL HAZARD REFERENCE

NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS DRAWING IS TO BE REPRODUCED IN COLOUR.
3. IF ANY DISCREPANCIES ARE FOUND IN THIS DRAWING, PLEASE REPORT TO DUDLEYS CONSULTING ENGINEERS.
4. THIS DRAWING HAS BEEN ORIENTATED TO OS BRITISH NATIONAL GRID (EPSG:27700 OSGB36). EXISTING SURVEY STATIONS ARE SHOWN ON THE TOPOGRAPHICAL SURVEY.
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTS' AND ENGINEERS' DRAWINGS AND THE FOLLOWING SPECIFICATIONS:
   5.1. ENGSPEC 06 - ROAD, PAVING AND CAR PARKING AREAS
   5.2. ENGSPEC 17 - DRAINAGE WORK
   5.3. ENGSPEC 24 - SPECIFICATION FOR HIGHWAY DRAINAGE
6. THIS DRAWING IS BASED ON THE FOLLOWING INFORMATION:
   6.1. T24673-DR-U-001 - TOPOGRAPHICAL SURVEY
   6.2. PL_1010-Proposed Ground Floor - SITE LAYOUT PLAN BY 31 / 44 ARCHITECTS DATED OCTOBER 2024
7. ALL WORK TO BE UNDERTAKEN IN ACCORDANCE WITH THE CURRENT EDITION OF THE BUILDING REGULATIONS, SEWERAGE SECTOR CODES OF PRACTICE, AND THE RELEVANT LOCAL HIGHWAY AUTHORITY STANDARDS.
8. THE SITE IS FOUNDED ON BOULDER CLAY AND IT IS EXPECTED THAT INFILTRATION WILL NOT BE SUCCESSFUL. DISCHARGE TO THE NEAREST SURFACE WATER SEWER (WHICH DISCHARGES TO COMBINED SEWER) IS PROPOSED. MINIMUM ACHIEVABLE FLOW RATE OF 2L/S IS PROPOSED TO MANAGE RUNOFF FROM THE SITE AND REDUCE FLOODING POTENTIAL.
9. IT IS EXPECTED THAT THE EXISTING 700m2 RUNOFF FROM THE SITE IS CIRCA 9.8L/S IN THE 1:1 YEAR EVENT AS THE SITE FALLS TOWARDS AN EXISTING GULLY. A 50% BETTERMENT TO THIS RATE IS PROPOSED.
10. 25.7m³ ATTENUATION IS PROVIDED WITHIN THE SITE FOR THE 1:30 + 40%CC AND 1:100 + 45%CC EVENTS. THIS IS STORED UNDER THE GARDEN AREA.

EXSWMH01
CL: 29.670
IL: 28.335 150Ø
TO BE SURVEYED

S4.01
RODDING EYE
CL: 30.025
IL: 29.250 225Ø

POROUS BLOCK PAVING
DIRECT INFILTRATION INTO
ATTENUATION TANK

GEOCELLULAR STORAGE
SDS GEOLIGHT 400
3m X 12m X 0.75m 95% VOIDS
25.7m³ NET VOLUME
IL: 28.600
SL: 29.350
MINIMUM COVER = 600mm
ABOVE GROUND TREE PITS

F1.01
SEALED RECESSED MH
CL: 30.100
IL: 29.500 100Ø
IL: 29.450 150Ø

S3.02
0.6Ø PPIC C250
CL: 30.025
IL: 28.664 150Ø
IL: 28.589 225Ø

F1.02
SEALED RECESSED MH
CL: 30.100
IL: 29.400 100Ø
IL: 29.350 150Ø

S3.01
0.6Ø PPIC C250
CL: 30.025
IL: 29.275 150Ø

F1.03
SEALED RECESSED MH
CL: 30.100
IL: 29.310 100Ø
IL: 29.260 150Ø

150 / 225 JUNCTION IL:
27.620 225Ø

F1.06
0.9Ø PCC C250
CL: 29.850
IL: 29.100 100Ø
BDIL: 29.050 150Ø
IL: 27.920 150Ø

F1.05
SEALED RECESSED MH
CL: 30.100
IL: 29.175 100Ø
IL: 29.125 150Ø

F1.04
SEALED RECESSED MH
CL: 30.100
IL: 29.235 100Ø
IL: 29.185 150Ø

EXNWL CS 3301
CL: 29.80
IL: 27.740 150Ø
IL: 27.665 225Ø

S1.01
RODDING EYE
CL: 30.000
IL: 29.250 150Ø

S1.02
0.6Ø PPIC C250
CL: 29.950
IL: 29.035 150Ø

POROUS BLOCK PAVING
100mm PERFORATED PIPE
INTO RAINWATER OUTLET

S104 AGREEMENT WITH NWL REQUIRED FOR NEW CONNECTION TO SURFACE WATER SEWER, ROUTED VIA PUBLIC HIGHWAY.

S2.01
RODDING EYE
CL: 29.950
IL: 29.200 150Ø

S1.03
0.9Ø PLASTIC C250
HYDROBRAKE
1.0m HEAD, 5L/S
CL: 29.950
IL: 28.540 150Ø
IL: 28.465 225Ø
FCIL: 28.465 150Ø
CPIL: 28.000

EXNWL CS 3307
CL: 30.03
IL: 23.550 525Ø

S1.04
1.2Ø PCC D400
CL: 29.875
IL: 28.389 150Ø
IL: 28.284 225Ø

CONNECT GULLIES ALONG ROUTE OF NEW SW SEWER TO NEW SEWER RATHER THAN COMBINED DRAIN

S1.05
1.2Ø PCC D400
CL: 29.875
IL: 27.760 225Ø

NOTE: EXISTING DRAINAGE CHAMBERS AND HIGHWAY ALONG ROUTE OF NEW SEWER TO BE FULLY SURVEYED WITH UTILITIES IDENTIFIED. EXISTING DEPTH OF COMBINED SEWER CROSSING THE NEW SURFACE WATER SEWER TO BE CONFIRMED.

EXNWL CW 3212
CL: 30.00 (TBC)
IL: 23.85 525Ø

EXNWL SW 3211
CL: 30.00 (TBC)
IL: 26.98 225Ø

FFL 30.025
FFL 30.100

Euro Bin 1100ltr

KEY - PROPOSED PRIVATE DRAINAGE

- PROPOSED PRIVATE SURFACE WATER DRAIN
- PROPOSED PRIVATE FOUL WATER DRAIN
- PROPOSED PRIVATE SURFACE WATER MANHOLE
- PROPOSED PRIVATE SURFACE WATER PPIC
- PROPOSED PRIVATE FOUL WATER MANHOLE
- PROPOSED PRIVATE FOUL WATER PPIC
- PROPOSED PRIVATE SURFACE WATER RODDING EYE
- PROPOSED PRIVATE SURFACE WATER YARD GULLY
- PROPOSED PRIVATE SURFACE WATER ATTENUATION TANK
- PROPOSED POROUS SURFACING

KEY - EXISTING ADOPTED DRAINAGE

- EXISTING ADOPTED COMBINED WATER SEWER
- EXISTING ADOPTED SURFACE WATER SEWER
- EXISTING ADOPTED COMBINED WATER MANHOLE
- EXISTING ADOPTED SURFACE WATER MANHOLE

DRAINAGE LAYOUT
SCALE: 1:100

PROPOSED IMPERMEABLE AREAS
SCALE: 1:200

60m²
594m²
TOTAL IMPERMEABLE AREA = 654m²

DATE	REVISION DESCRIPTION	BY	CHK.	REV.
15.01.24	SW SYSTEM ROUTED TO NWL SEWER	SDR	SDR	P02
17.10.24	INITIAL ISSUE	SDR	SDR	P01

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PROJECT
VOYAGE BOLDON COLLIERY
WILTON GARDENS SOUTH
BOLDON COLLIERY, NE35 9HS

TITLE
DRAINAGE STRATEGY

SCALE	PAPER	STAGE	STATUS
1:100	A1	PRELIMINARY	

DRAWING NO. 24321-DCE-XX-XX-D-C-100
REV. P02